

Network Dome

# PNV-A9081R

Cámara de red IR Domo Antivandálico 4K con IA

## Key Features

- Resolución máxima 4K
- 0.05Lux@F1.6 (Color), 0Lux (B/N, LED IR encendido)
- Día y noche (ICR), WDR (120dB), WiseNR II (con motor AI), obturador preferido
- Códec H.265, H.264, MJPEG, WiseStream II , WiseStreamIII (utilizando el motor de IA)
- Análisis de vídeo basado en IA
- Detección y clasificación de objetos(Persona, rostro, vehículo, matrícula)
- Detección de máscara facial, detección de distanciamiento social
- Atributo, BestShot
- Estructura modular para una fácil instalación
- Requiere el firmware de la cámara v1.41.03 o posterior para utilizar la detección de máscaras faciales
- Requisitos del sistema
- SSM v2.10.8 o posterior, plugin Genetec v1.0 o posterior, plugin Milestone v1.0.2 o posterior, modelo NVR (XRN-6410DB4/B4, XRN-3210B4)

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## Specifications

### Video

| | | |
|---|---|---|
| **Imaging Device** | Size | 1/1.8" |
| | Type | CMOS |
| **Resolution** | | 3840x2160, 3072x1728, 2688x1520, 2592x1944, 2560x1440, 2048x1536, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360 |
| **Max. Framerate** | H.265/H.264 | 30fps/25fps(60Hz/50Hz) |
| | MJPEG | 30fps |
| **Min. Illumination (Lux)** | Color(1/30sec, 30IRE) | 0.05 |
| | BW(1/30sec, 30IRE) | 0.005 |
| **Video Out** | | CVBS: 1.0 Vp-p / 75Ω composite for installation,<br>USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle. |

### Lens

| | | |
|---|---|---|
| **Focal Length (mm)** | | 4.5~10 |
| **Zoom Ratio** | Optical | 2.2x |
| **Max Aperture Ratio (F number)** | Wide | 1.6 |
| | Tele | 2.65 |
| **Angular Field of View** | Horizontal | 101.4°~45.5° |
| | Vertical | 53.6°~25.5° |
| | Diagonal | 120.7°~52.3° |
| **Min. Object Distance** | | 0.5m(1.64ft) |
| **Focus Control** | | Simple focus |
| **Lens Type** | | P iris(IR corrected) |

### Pan / Tilt / Rotate

| | | |
|---|---|---|
| **Pan / Tilt / Rotate Range** | Pan | 0˚~360˚ |
| | Tilt | -45˚~85˚ |
| | Rotate | 0˚~355˚ |

### Operational

| | |
|---|---|
| **Day & Night** | Auto(ICR) |

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## Operational

| | | |
|---|---|---|
| **Backlight Compensation** | | BLC, WDR, SSDR |
| **Wide Dynamic Range (dB)** | | 120 |
| **Digital Noise Reduction** | | WiseNR II (Based on AI engine), SSNR V |
| **Digital Image Stabilization** | | Support(built-in gyro sensor) |
| **Motion Detection** | Quantity | 8ea |
| | Shape | 8point Polygonal zones |
| **Privacy Masking** | Quantity | 6ea |
| | Shape | Rectangular zones |
| | Color / Option | Gray, Black, White |
| **Gain Control** | | Low, Middle, High |
| **White Balance** | | ATW, AWC, Manual, Indoor, Outdoor |
| **LDC** | | Support |
| **Electronic Shutter** | Mode | Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine) |
| | Speed Range | 1/5~1/12,000sec |
| **Video Rotation** | | Flip, Mirror, Hallway view(90°/270°) |
| **Alarm Interface** | In/Out | 2 configurable I/O ports |
| | Others | 12VDC output |
| **Alarm Triggers** | | Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription |
| **Alarm Events When Alarm Trigger Occurred** | | File upload(image): e-mail/FTP,<br>Notification: e-mail,<br>Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output,<br>Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback,<br>MQTT: publication |
| **Audio In** | | Selectable(mic in/line in) |
| **Audio Out** | | Line out |
| **Light Type** | | IR LED |
| **Light Viewable Length** | IR | WiseIR 30m(98.42ft) |
| **IR Wavelength** | | 850nm |

## Analytics

| | | |
|---|---|---|
| **Classified Object Type** | | Person, Face, Vehicle, License plate |
| **Attributes** | Person | Upper/Lower clothes color, Gender, Bag |
| | Vehicle | Type(car, bus, truck, motorcycle, bicycle), Color |
| | Face | Age, Gender, Face mask, Glasses |
| **Thumbnail** | | BestShot |

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## Analytics

| | | |
|---|---|---|
| **Analytics Events** | Based on AI Engine | Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Face mask detection, Social distancing detection, Slip & fall detection |
| | Normal | Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear), WiseDetector for adding custom objects |
| **Business Intelligence** | Based on AI Engine | People counting, Queue management, Heatmap, Vehicle counting, Crowd counting |

## Network

| | | |
|---|---|---|
| **Ethernet** | | Metal shielded RJ-45(10/100/1000BASE-T) |
| **Video Compression** | | H.265: Main,<br>H.264: Main/High,MJPEG |
| **Audio Compression** | | G.711 u-law /G.726 selectable,G.726(ADPCM) 8kHz,G.711 8kHz,<br>G.726: 16kbps,24kbps,32kbps,40kbps,<br>AAC-LC: 48kbps at 16kHz |
| **Smart Codec** | | Manual, WiseStreamIII |
| **Bitrate Control** | | H.265/H.264: CBR or VBR,<br>MJPEG: VBR |
| **Streaming** | Unicast | Up to 10 users |
| | Multicast | Support |
| | Multiple Streaming | Up to 5 profiles |
| **Protocol** | | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), MQTT |
| **Application Programming Interface** | ONVIF | S, G, T, M |
| | Others | SUNAPI(HTTP API), Hanwha Vision Open Platform |
| **Direct Cloud Connection** | | Support |

## Security

| | |
|---|---|
| **OS / Firmware Protect** | Encrypted firmware, Secure boot, Signed firmware |
| **User authentication** | Digest authentication, Prevent brute-force attack |
| **Network authentication** | IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2) |
| **Secure Communication** | HTTPS, WSS(WebSocket Secure) |
| **Access Control** | IP-based access control |
| **Data Protect** | Encryption credentials, Encrypt compress for live recording file export |
| **Audit** | Access / System / Event Log management |
| **Device ID** | Device certificate(Hanwha Vision Root CA) |
| **Secure Storage** | SDcard partition encrypt(AES-256) |
| **Security Certificate** | IACS Component Security Requirements Certification (IEC 62443-4-2) |

## General

| | | |
|---|---|---|
| **Memory** | RAM | 4GB |
| | Flash | 512MB |

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## General

| | | |
|---|---|---|
| **Edge Storage** | Micro SD/SDHC/SDXC | Max. 256GB x 2slot(Total 512GB) |

## Environmental & Electrical

| | | |
|---|---|---|
| **Operating Condition** | Temperature | -50°C~+55°C(-58°F~+131°F) |
| | Humidity | 0~90% RH(non-condensing) |
| | Others | Start up should be done at above -30°C |
| **Storage Condition** | Temperature | -50°C~+60°C(-58°F~+140°F) |
| | Humidity | 0~90% RH(non-condensing) |
| **Input Voltage** | | PoE+(IEEE802.3at, Class4), 12VDC |
| **Power Consumption** | PoE | Max 20.00W, typical 17.00W |
| | 12VDC | Max 18.70W, typical 15.00W |

## Mechanical

| | |
|---|---|
| **Color** | White |
| **Material** | Aluminum |
| **RAL Code** | RAL9003 |
| **Product Dimensions** | Ø180x125mm(7.09x4.92") |
| **Product Weight** | 1,900g(4.19lb) |
| **Compatible Conduit Hole** | 19.1mm(3/4")(M25) |
| **Compatible Gang Box** | Single, Double, 4" Octagon, Square |

## DORI (EN62676-4 standard)

| | | |
|---|---|---|
| **Detect (25PPM/ 8PPF)** | Wide | 62.2m(204.04ft) |
| | Tele | 185.4m(608.31ft) |
| **Observe (63PPM/ 19PPF)** | Wide | 24.9m(81.62ft) |
| | Tele | 74.2m(243.32ft) |
| **Recognize (125PPM/ 38PPF)** | Wide | 12.4m(40.81ft) |
| | Tele | 37.1m(121.66ft) |
| **Identify (250PPM/ 76PPF)** | Wide | 6.2m(20.40ft) |
| | Tele | 18.5m(60.83ft) |

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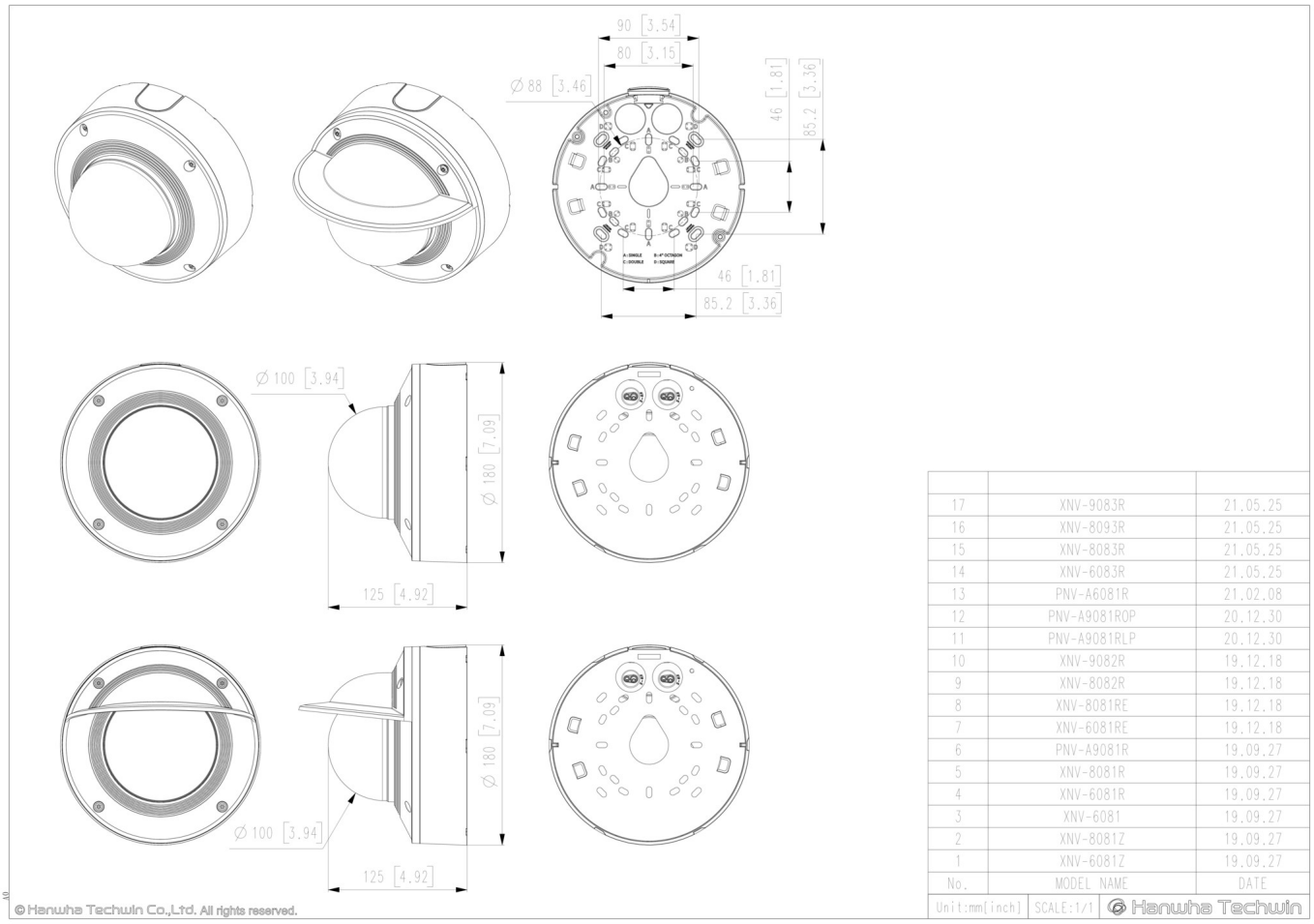
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## CAD

**Unit:** mm [inch]




| No. | MODEL NAME | DATE |
|---|---|---|
| 17 | XNV-9083R | 21.05.25 |
| 16 | XNV-8093R | 21.05.25 |
| 15 | XNV-8083R | 21.05.25 |
| 14 | XNV-6083R | 21.05.25 |
| 13 | PNV-A6081R | 21.02.08 |
| 12 | PNV-A9081ROP | 20.12.30 |
| 11 | PNV-A9081RLP | 20.12.30 |
| 10 | XNV-9082R | 19.12.18 |
| 9 | XNV-8082R | 19.12.18 |
| 8 | XNV-8081RE | 19.12.18 |
| 7 | XNV-6081RE | 19.12.18 |
| 6 | PNV-A9081R | 19.09.27 |
| 5 | XNV-8081R | 19.09.27 |
| 4 | XNV-6081R | 19.09.27 |
| 3 | XNV-6081 | 19.09.27 |
| 2 | XNV-8081Z | 19.09.27 |
| 1 | XNV-6081Z | 19.09.27 |

Unit:mm[inch] | SCALE:1/1 | Hanwha Techwin

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